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CLAIMS

1. A card access apparatus that is adapted to be connected to a plurality of types of cards, the apparatus
5 comprising:

a plurality of connection points adapted for the respective types of cards; and

a plurality of signal buses that connects the connection points to a card control unit;

10 wherein when one type of the types of cards is connected to one of the connection points adapted for said one type of the types of cards, at least one of the signal buses connected to at least one of the connection points adapted for at least one other type of the types of cards is electrically
15 isolated from said at least one of the connection points.

2. The card access apparatus as claimed in claim 1,
further comprising:

an isolator that is configured to electrically
20 isolate said at least one of the signal buses connected to said at least one of the connection points adapted for said at least one other type of the types of cards from said at least one of the connection points;

wherein when said one type of the types of cards is
25 not connected to said one of the connection points adapted for

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said one type of the types of cards, the isolator is arranged to be in an open state.

3. The card access apparatus as claimed in claim 2,

5 wherein

when said one type of the types of cards is connected to said one of the connection points adapted for said one type of the types of cards, the isolator is arranged to be in a closed state.

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4. The card access apparatus as claimed in claim 2,

wherein

the isolator realizes a separate circuit with respect to the card control unit.

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5. The card access apparatus as claimed in claim 2,

wherein

the isolator is integrated into the card control unit.

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6. The card access apparatus as claimed in claim 2,

wherein

said one type of the types of cards includes a metal plate having an insulator coating applied thereon; and
25 the isolator is provided for said at least one of

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the signal buses connected to said at least one of the connection points adapted for said at least one other type of the types of cards when there is a risk of a short circuit occurring at said at least one of the connection points

5 adapted for said at least one other type of the types of cards upon connecting said one type of the types of cards to said one of the connection points adapted for said one of the types of cards.

10 7. The card access apparatus as claimed in claim 2,
wherein

 said one type of the types of cards is connected to said one of the connection points adapted for said one type of the types of cards by a connecting unit that includes a metal plate having an insulator coating applied thereon; and

15 the isolator is provided for said at least one of the signal buses connected to said at least one of the connection points adapted for said at least one other type of the types of cards when there is a risk of a short circuit occurring at said at least one of the connection points adapted for said at least one other type of the types of cards upon connecting said one type of the types of cards to said one of the connection points adapted for said one type of the types of cards.

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8. The card access apparatus as claimed in claim 2,
wherein

the signal buses include a plurality of card
detection signal buses for the respective types of cards; and

5 when at least one card detection signal of at least
one of the card detection signal buses for at least one of the
types of cards is set to a non-detection state, and the
isolator is provided for at least one of the signal buses
associated with said at least one of the types of cards, the
10 isolator is arranged to be in an open state.

9. The card access apparatus as claimed in claim 8,
wherein

15 when said at least one card detection signal of
said at least one of the card detection signal buses is set to
a card detection state, the isolator is arranged to be in a
closed state.

10. The card access apparatus as claimed in claim
20 8, wherein

the signal buses include at least one power circuit
signal bus, and the isolator is provided for said at least one
power circuit signal bus; and

25 the card control unit controls a power circuit and
the isolator to secure a predetermined access period upon

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detecting a card detection signal state change from a card detection state to a non-detection state in one of the card detection signal buses.

5 11. The card access apparatus as claimed in claim
8 wherein

the signal buses include at least one power circuit signal bus, and the isolator is provided for said at least one power circuit signal bus; and

10 the card control unit controls a power circuit to prevent access upon detecting a card detection signal state change from a card detection state to a non-detection state in one of the card detection signal buses.

15 12. An electronic apparatus comprising:

a card access apparatus that is adapted to be connected to a plurality of types of cards, the apparatus including a plurality of connection points adapted for the respective types of cards, and a plurality of signal buses
20 that connects the connection points to a card control unit;

wherein when one type of the types of cards is connected to one of the connection points adapted for said one type of the types of cards, at least one of the signal buses connected to at least one of the connection points adapted for
25 at least one other type of the types of cards is electrically

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isolated from said at least one of the connection points.